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EXHIBIT A

- A polypeptide according to claim 83, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxylterminus, or at both the amino-terminus and at the carboxyl-terminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxylterminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
- 52. A polypeptide according to claim 51, wherein said polypeptide includes a methionine at the amino-terminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
- A pharmaceutical composition comprising a polypeptide of claim 69 and a pharmaceutically acceptable carrier.
- A pharmaceutical composition comprising a polypeptide of claim 83 and a pharmaceutically acceptable carrier.
- 69. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell which has the ability to bind to TNF, wherein said polypeptide is encoded by DNA selected from the group consisting of:
 - A) DNA comprising the sequence:
 - R² GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC

GGC CCG TGT CCA GGA ACC TAC TTG TAC AAT GAC AAA GAG AGC **GGC** TGŤ GAG **GGG** CAG GAT ACG GAC TGC AGG **AGA** CAC TGC TTC ACC GCT **TCA** GAA AAC CAC CTC TCC GGT CAG GAA ATG TGC TCC AAG CTC AGC AAA TGC ,CGA GTG **GAC** CGG GAC ACC GAG ATC TCT TC® TGC ACA GTG CAT TAT TAC CGG AAG AAC CAG GTG TGT GGC TGC AGG TTC AAT TGC **AGC** CTT TTC CÁG TGC AGT GAA AAC TGG TGC ĊТС TCC CAG CTC AAT' 'GGG ACC GTG CAC TGC CTC GGT TGC, ACC CAT GCA ŢĠÇ CAG AAC ACC GTG GAG AAA ŢGT AGT. AAC GAG TGT GTC TCC GAA TTTCTAAGA TTC TTG TGC ACG AAG CTG GAG TGC TGT AAG AAA AGC AAC CAG ATT GAG AAT. CCC CTA

, or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a DNA comprising a sequence coding for a polypeptide which can be cleaved *in vivo*; and

B) DNA comprising the sequence:

, or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or represents DNA coding for a polypeptide which can be cleaved *in vivo*;

C) a DNA sequence of A or B encoding at least one conservative amino acid substitution;

- D) a DNA sequence of A or B encoding at least one amino acid substitution at a glycosylation site;
- E) a DNA sequence of A or B encoding at least one amino acid substitution at a proteolytic cleavage site; and
- F) a DNA sequence of A or B encoding at least one amino acid substitution at a cysteine residue.
- 70. (Amended) A polypeptide according to claim 69, wherein R² is a DNA comprising a sequence which codes for a polypeptide which can be cleaved *in vivo*.
- 71. (Amended) A polypeptide according to claim 69, wherein R² is a DNA comprising the sequence: CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof.
- 72. (Amended) A polypeptide according to claim 69, wherein R² is a DNA encoding an amino acid sequence comprising: leu val pro his leu gly asp arg glu lys arg, or a C- and/or N- terminally shortened sequence thereof.
- 73. (Amended) A polypeptide according to claim 70, wherein R² is a DNA comprising the sequence: R² CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof, wherein R³ is a DNA coding for a signal peptide.
- 74. (Amended) A polypeptide according to claim 70, wherein R² is a DNA encoding an amino acid sequence comprising: R² leu val pro his leu gly asp arg glu lys arg, or a C- and/or N- terminally shortened sequence thereof, wherein R³ is a DNA coding for a signal peptide.
- 75. (Amended) A polypeptide according to claim 73, wherein R³ is a DNA comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA

; or a C- and/or N- terminally shortened sequence thereof.

76. Polypeptide according to claim 73, wherein R³ is a DNA encoding an amino acid sequence comprising:

leu leu val leu leu pro gly leu ser thr val pro asp met val ile ile gly leu leu val gly tyr pro ser leu leu glu gly

; or a C- and/or N- terminally shortened sequence thereof.

- 78. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by DNA selected from the group consisting of:
 - A) DNA comprising the sequence:

CAC CTA GGG GAC AGG GAG AAG AGA GAT CTG GTC CCT ATC CAC CCT CAA AGT GTG TGT CCC CAA GGA AAA TAT AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA **GGA** TAC AAT GAC TGT CCA GGC CCG GGG CAG ACC TAC TTG GAG AGC GGC TCC TTC GAT ACG GAC TGC AGG GAG TGT TGC CTC AGC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CGA AAG GAA ATG GGT CAG GTG GAG TGC TCC AAA ATC TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT TCTCGG CAT TAT TGG GGC TGC AGG AAG AAC CAG TAC AGT TTC CAG AAT TGC AGC CTC TGC GAA AAC CTT TGC TTC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT TGT GTC TCC TGT AGT AAC TGT CTA AGA GAA AAC GAG AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT

, or a C- and/or N- terminally shortened sequence thereof;

B) DNA comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA

AAG TGC CAC AAA GGA AAT AAT TCG ATT TGC TGT ACC CCA GGC CCG GGG CAG ACC TAC TTG TAC AAT **GAC** TGT TCC TTC ACG AGG TGT GAG **AGC** GGC GAT GAC TGC GAG CTC ACC GCT TCA GAA AAC CAC CTC **AGA** CAC TGC **AGC** TGC CGA AAG GAA ATG GGT CAG GTG TGC TCC AAAACA GTG GAC CGG GAC ACC GTG TGT ATC TCT TCT TGC TGG GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT AGT CAG TGC TTC AAT TGC AGC CTC TGC AAC CTTTTC GAA GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CTC AAT ACC TGC CAT **GCA** GGT TTC TTT CAG AAC ACC GTG TGC GTC TCC TGT AAC GAG TGT AGT AAC TGT CTA AGA GAA AAG AAA AGC CTG **GAG** TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA

, or a C- and/or N- terminally shortened sequence thereof;

C) DNA comprising the sequence:

TGT CCC CAA GGA AAA TAT ATC CAC CCT GAT AGTGTG ATT TGC ACC AAG TGC CAC AAAAAT AAT TCG TGT CAA TGT CCA GGC CCG GGG TTG TAC AAT GAC GGA ACC TAC **GAG** TGT GAG AGC **GGC** CAG GAT ACG GAC TGC AGG TCC CTC ACC GCTTCA GAA AAC CAC AGA CAC TGC CTC TTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG TGT CAG AAT CTT TTC TGC AGT GAA AAC TGC TTC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG **GAG** AAA CAG AAC ACC GTG TGC ACC TGC CAT **GCA** GGT TTC GAA AAC GAG TGT GTC TCC TGT AGT AAC TTT CTA AGA CTG GAG ACG AAG TTG TGT AAG AAA AGC TGC TGC CTA CAG ATT GAG AAT

, or a C- and/or N- terminally shortened sequence thereof; and

D) DNA comprising the sequence:

GTG TGT CCC TAT ATC CAC CCT GAT AGT CAA GGA AAA TGC AAA AATAAT TCG T'TA TGC TGT ACC AAG CAC GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG **AGC** GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG ATC TCT TCT TGC ACA GTG **GAC** CGG GAC ACC GTG GAG CAG TGG TGT GGC TGC AGG AAG AAC TAC CGG CAT TAT TTC TTC TGC CTC AGT GAA AAC CTTCAG TGC AAT AGC

GTG CAC TCC TGC CAG GAG TGC CTC AAT GGG ACC CTC GCA GGT TTC GTG ACC TGC CAT AAA CAG AAC ACC TGC AAC GAG TCC TGT AGT TGT GTC CTA AGA GAA AAC TTG CTA AAG AAA AGC CTG **GAG** TGC ACG AAG TGC TGT GAC TCA GAG AAT GTT AAG GGC ACT GAG CCC CAG ATT GGC ACC ACA

, or a C- and/or N- terminally shortened sequence thereof;

- E) a DNA sequence of A, B, C or D encoding at least one conservative amino acid substitution;
- F) a DNA sequence of A, B, C or D encoding at least one amino acid substitution at a glycosylation site;
- G) a DNA sequence of A, B, C or D encoding at least one amino acid substitution at a proteolytic cleavage site; and
- H) a DNA sequence of A, B, C or D encoding at least one amino acid substitution at a cysteine residue.
- 80. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by DNA selected from the group consisting of:

A) DNA comprising the sequence:

```
ATG CTG GTC CCT CAC CTA GGG
                              GAC AGG GAG AAG AGA
GAT
    AGT
        GTG
             TGT
                CCC
                     CAA
                          GGA
                              AAA
                                  TAT ATC CAC
                                                CCT
                                  AAG TGC
                                           CAC AAA
CAA AAT AAT
             TCG ATT
                     TGC
                          TGT
                              ACC
             TTG
                          GAC
                              TGT
                                  CCA
                                       GGC
                                           CCG
                                                GGG
GGA ACC
        TAC
                 TAC AAT
                                  GAG AGC
                                           GGC
                                                TCC
CAG GAT ACG GAC TGC AGG
                          GAG
                              TGT
                                       CAC
                                           TGC
TTC ACC GCT
             TCA GAA AAC
                          CAC CTC
                                  AGA
                                                CTC
AGC TGC TCC AAA TGC
                     CGA AAG GAA ATG
                                       GGT
                                           CAG
                                                GTG
        TCT
             TCT
                TGC ACA GTG
                              GAC
                                   CGG
                                       GAC
                                           ACC
                                                GTG
GAG ATC
        TGC AGG AAG AAC
                          CAG
                              TAC
                                  CGG
                                       CAT
                                           TAT
                                                TGG
TGT GGC
    GAA AAC
             CTT
                TTC
                     CAG
                          TGC
                              TTC
                                  AAT
                                       TGC
                                           AGC
                                                CTC
AGT
             GGG ACC
                     GTG CAC
                              CTC
                                   TCC
                                       TGC
                                           CAG
                                                GAG
    CTC
        AAT
TGC
                                       GCA
                                           GGT
                                                TTC
AAA CAG AAC ACC GTG
                     TGC
                          ACC
                              TGC
                                   CAT
                          TGT
                              GTC
                                   TCC
                                       TGT
                                           AGT
                                                AAC
TTT
    CTA AGA GAA AAC GAG
                     GAG TGC
                              ACG AAG
                                       TTG
                                           TGC
                                                CTA
TGT AAG AAA AGC CTG
CCC
    CAG ATT
             GAG
                 TAA
```

, or a C- and/or N- terminally shortened sequence thereof;

B) DNA comprising the sequence:

CCT CAC CTA GGG GAC AGG CTG GTC GAG AAG AGA ATG TAT ATC CAC CCT TGT CCC CAA GGA AAA GAT AGT GTG CAA AAT AATTCG ATT TGC TGT ACC AAG TGC CAC AAA TGT CCA GGC CCG GGG TTG AAT GAC GGA ACC TAC TAC **GAG** TGT GAG AGC GGC TCC CAG GAT ACG GAC TGC AGG CTC CTC AGA CAC TGC ACC GCT TCA GAA AAC CAC TTC GGT GTG CGA AAG GAA ATG CAG TGC TCC AAA TGC AGC CGG GAC ACC GTG GAG ATC TCT TCT TGC ACA GTG GAC TGC AGG AAG AAC CGG TAT TGG CAG TAC CAT TGT GGC CTT TTC CAG TGC TTC AAT TGC AGC CTC AGT GAA AAC TGC CAG GAG GTG CAC CTC TCC TGC CTC AAT GGG ACC CAT ACC GTG ACC TGC GCA GGT TTC AAA CAG AAC TGC TCC TGT AGT AAC GAA AAC **GAG** TGT GTC CTA AGA GAG TGC ACG AAG TTG TGC CTA TGT AAG AAA AGC CTG GTT AAG GGC ACT GAG GAC TCA CCC CAG ATT GAG AAT GGC ACC ACA

, or a C- and/or N- terminally shortened sequence thereof;

C) DNA comprising the sequence:

ATC CAC ATG GAT AGT GTG TGTCCC CAA GGA AAA TAT CAC TCG ATT TGC TGT ACC AAG TGC CCT CAA AAT AAT GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG AAA TGT GAG AGC GGC CAG GAT ACG GAC AGG GAG GGG TGC GCT CTC AGA CAC TGC TCC TTC ACC TCA GAA AAC CAC GGT CAG CTC AGC TGC TCC AAA CGA AAG GAA ATG TGC GTG GAG ATC TCT TCT TGC GTG GAC CGG GAC ACC ACA GTG TGTGGC TGC AGG AAG AAC CAG TAC CGG CAT TGG AGT GAA AAC CTT TTC CAG **TGC** TTC AAT TGC AGC CTC TGC CTC AATGGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT GAG TTTCTA AGA GAA AAC TGT GTC TCC TGT AGT TTC CTG ACG AAG TTG TGT AAG AAA AGC GAG TGC CTA CCC CAG ATT GAG AAT

, or a C- and/or N- terminally shortened sequence thereof;

D) DNA comprising the sequence:

CAC GTG TGT CCC CAA GGA AAA TAT ATC ATG GAT AGT AAG CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC TGC GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG AAA CAG GAT ACG GAC TGC AGG **GAG** TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA

```
TCC AAA TGC CGA AAG GAA ATG GGT
                                                 CAG
   AGC
        TGC
                          ACA GTG
                                    GAC
                                        CGG
                                             GAC
                                                 ACC
             TCT
                  TCT
                      TGC
GTG
    GAG ATC
                                        CGG
                                             CAT
                                                 TAT
                               CAG
                                    TAC
                  AGG
                      AAG
                           AAC
GTG
    TGT
        GGC
             TGC
                                             TGC
                               TGC
                                    TTC
                                        AAT
                                                 AGC
TGG AGT
        GAA AAC
                  CTT
                      TTC
                           CAG
                                        TCC
                                             TGC
                                                 CAG
                               CAC
                                    CTC
        CTC AAT
                  GGG
                      ACC
                           GTG
CTC
    TGC
GAG AAA CAG AAC ACC
                      GTG
                           TGC
                               ACC
                                    TGC
                                        CAT
                                             GCA
                                                 GGT
                           GAG
                                        TCC
                                             TGT
                                                 AGT
                               TGT
                                    GTC
TTC
    TTT
        CTA AGA GAA AAC
                      CTG
                           GAG
                               TGC
                                    ACG AAG
                                             TTG
                                                 TGC
    TGT AAG AAA AGC
                 GAG AAT GTT AAG GGC ACT GAG GAC
CTA CCC CAG ATT
TCA GGC ACC ACA
```

, or a C- and/or N- terminally shortened sequence thereof;

E) DNA comprising the sequence:

```
CTG CTG
                                             CTG
                                                 CCA
ATG GGC CTC TCC ACC GTG CCT
                               GAC
                                   GGA ATA
                                             TAC
                                                  CCC
CTG GTG CTC
             CTG GAG CTG
                           TTG
                               GTG
                                             GGG
                                                 GAC
TCA GGG GTT
            ATT
                  GGA
                      CTG GTC
                               CCT
                                    CAC
                                        CTA
                               TGT
                                    CCC
                                        CAA
                                             GGA AAA
AGG GAG AAG AGA
                  GAT
                      AGT
                           GTG
                           AAT
                               TCG
                                    ATT
                                        TGC
                                             TGT
                                                  ACC
    ATC CAC CCT
                  CAA AAT
TAT
                               TTG
                                    TAC
                                        AAT
                                             GAC
                                                  TGT
                 GGA
                           TAC
AAG
    TGC
         CAC AAA
                      ACC
                                        AGG
                                             GAG
                                                  TGT
    GGC CCG GGG CAG
                                    TGC
CCA
                      GAT
                           ACG
                               GAC
                                             CAC
                                                  CTC
GAG AGC GGC
             TCC
                  TTC
                      ACC
                           GCT
                               TCA
                                    GAA
                                        AAC
                                                  GAA
    CAC TGC CTC AGC
                                    TGC
                                        CGA AAG
                      TGC
                           TCC
                               AAA
AGA
    GGT CAG GTG
                  GAG
                      ATC
                           TCT
                               TCT
                                    TGC
                                        ACA
                                             GTG
                                                  GAC
ATG
                  TGT
                               AGG
                                    AAG AAC
                                             CAG
CGG
    GAC ACC GTG
                      GGC
                           TGC
                               CTT
                                    TTC
                                        CAG
                                             TGC
                                                  TTC
    CAT
        TAT
             TGG AGT
                      GAA
                           AAC
CGG
                                    ACC
    TGC AGC
             CTC
                  TGC
                      CTC
                           AAT
                               GGG
                                        GTG CAC
                                                  CTC
AAT
             GAG AAA
                      CAG
                          AAC
                               ACC
                                    GTG
                                        TGC
                                             ACC
                                                  TGC
TCC
    TGC
        CAG
                  TTT
                      CTA AGA
                                    AAC
                                        GAG
                                             TGT
                                                  GTC
    GCA GGT
             TTC
                               GAA
CAT
TCC
    TGT
        AGT
            AAC TGT
                      AAG AAA
                               AGC
                                    CTG
                                        GAG
                                             TGC
                                                 ACG
AAG TTG TGC CTA CCC CAG ATT
                               GAG
                                   AAT
```

, or a C- and/or N- terminally shortened sequence thereof;

F) DNA comprising the sequence:

```
CTG CCA
              TCC ACC GTG CCT
                                GAC
                                     CTG
                                          CTG
ATG GGC
        CTC
CTG GTG
         CTC CTG GAG CTG
                           TTG
                                GTG
                                     GGA
                                         ATA
                                              TAC
                                                   CCC
                                CCT
                                     CAC
                                          CTA
                                              GGG
                                                   GAC
    GGG GTT ATT GGA
                      CTG
                           GTC
TCA
        AAG AGA GAT
                      \mathbf{AGT}
                           GTG
                                TGT
                                     CCC
                                          CAA
                                              GGA AAA
AGG
    GAG
              CCT
                  CAA AAT
                           AAT
                                TCG
                                     ATT
                                          TGC
                                              TGT
                                                   ACC
TAT
    ATC
         CAC
                                TTG
                                     TAC
                                          AAT
                                              GAC
                                                   TGT
    TGC
         CAC AAA GGA ACC
                           TAC
AAG
    GGC
         CCG
              GGG CAG GAT
                                GAC
                                     TGC
                                         AGG
                                              GAG
                                                   TGT
CCA
                           ACG
         GGC
                                TCA
                                              CAC
                                                   CTC
    AGC
              TCC
                  TTC
                       ACC
                            GCT
                                     GAA
                                         AAC
GAG
AGA
    CAC
         TGC
              CTC AGC
                       TGC
                            TCC
                                AAA
                                     TGC
                                          CGA
                                              AAG
                                                   GAA
                                     TGC ACA GTG GAC
        CAG GTG GAG ATC
                           TCT
                                TCT
    GGT
```

```
AAC
                                               CAG
                                                    TAC
    GAC
        ACC
              GTG
                  TGT
                      GGC TGC
                                 AGG
                                     AAG
CGG
                                                    TTC
                                 CTT
                                      TTC
                                               TGC
CGG
    CAT
         TAT
              TGG
                  AGT
                       GAA
                            AAC
                                          CAG
                                                    CTC
              CTC
                                 GGG
                                     ACC
                                          GTG
                                               CAC
AAT
    TGC
        AGC
                   TGC
                       CTC
                            AAT
TCC
    TGC
         CAG
              GAG AAA
                       CAG AAC
                                 ACC
                                     GTG
                                          TGC
                                               ACC
                                                    TGC
                                 GAA
                                     AAC
                                          GAG
                                               TGT
                                                    GTC
CAT
    GCA
         GGT
              TTC
                   TTT
                       CTA AGA
                                     CTG
                                          GAG
                                               TGC
                                                    ACG
    TGT
         AGT
              AAC
                  TGT
                       AAG
                            AAA
                                 AGC
TCC
AAG
    TTG
         TGC
              CTA CCC
                       CAG ATT
                                 GAG AAT
                                          GTT
                                              AAG
                                                    GGC
        GAC
             TCA GGC ACC ACA
    GAG
```

, or a C- and/or N- terminally shortened sequence thereof;

G) DNA comprising the sequence:

```
CTG CTG
                                              CTG
              TCC ACC GTG
                           CCT
                                GAC
                                                   CCA
ATG GGC CTC
                                GTG
                                     GGA
                                         ATA
                                              TAC
                                                   CCC
CTG
    GTG
         CTC
              CTG
                  GAG
                       CTG
                            TTG
                                     TGT
    GGG GTT
              ATT
                  GGA
                       GAT
                           AGT
                                GTG
                                         CCC
                                              CAA
                                                   GGA
TCA
                  CCT
                       CAA AAT AAT
                                     TCG
                                         ATT
                                              TGC
                                                   TGT
    TAT
         ATC
              CAC
AAA
ACC
    AAG
         TGC
              CAC AAA
                       GGA
                           ACC
                                TAC
                                     TTG
                                          TAC
                                              AAT
                                                   GAC
        GGC
              CCG GGG
                       CAG GAT
                                ÀCG
                                     GAC
                                          TGC AGG
                                                   GAG
TGT
    CCA
                           ACC
                                GCT
                                     TCA
                                         GAA
                                              AAC
                                                  CAC
TGT
    GAG
         AGC
              GGC
                  TCC
                       TTC
CTC
         CAC
              TGC
                  CTC
                       AGC
                            TGC
                                TCC
                                     AAA
                                          TGC
                                              CGA AAG
    AGA
                                 TCT
                                     TCT
                                          TGC
                                              ACA
                                                   GTG
GAA
    ATG
         GGT
              CAG
                  GTG
                       GAC
                           ATC
GAC
    CGG
         GAC
              ACC
                  GTG
                       TGT
                            GGC
                                TGC
                                     AGG
                                          AAG
                                              AAC
                                                   CAG
                                                   TGC
TAC
    CGG
        CAT
              TAT
                  TGG
                       AGT
                           GAA
                                AAC
                                     CTT
                                          TTC
                                              CAG
TTC
         TGC
              AGC
                  CTC
                       TGC
                            CTC
                                AAT
                                     GGG
                                          ACC
                                              GTG CAC
    AAT
                                AAC
                                     ACC
                                         GTG
CTC
    TCC
         TGC
             CAG
                  GAG
                       AAA
                           CAG
                                              TGC
                                                  ACC
    CAT
         GCA
              GGT
                  TTC
                       TTT
                            CTA
                                AGA
                                     GAA
                                         AAC
                                              GAG
                                                   TGT
TGC
GTC
    TCC
         TGT
              AGT
                  AAC
                       TGT
                            AAG
                                AAA
                                     AGC
                                         CTG
                                              GAG
                                                   TGC
             TGC CTA CCC CAG ATT
ACG AAG
        TTG
                                     GAG AAT
```

, or a C- and/or N- terminally shortened sequence thereof;

H) DNA comprising the sequence:

```
GGC
         CTC
              TCC ACC
                       GTG
                            CCT
                                GAC
                                     CTG
                                          CTG
                                               CTG
                                                    CCA
ATG
         CTC
              CTG GAG
                       CTG
                            TTG
                                 GTG
                                     GGA
                                          ATA
                                               TAC
                                                    CCC
    GTG
         GTT
              ATT GGA
                            AGT
                                 GTG
                                     TGT
                                          CCC
                                               CAA
TCA
    GGG
                       GAT
                                                    GGA
                                 AAT
                                      TCG
AAA
    TAT
        ATC
             CAC CCT
                       CAA
                           AAT
                                          ATT
                                               TGC
                                                    TGT
                                      TTG
ACC
    AAG
         TGC
              CAC AAA
                       GGA
                            ACC
                                TAC
                                          TAC
                                               AAT
                                                    GAC
              CCG GGG
                                ACG
                                     GAC
                                          TGC
                                               AGG
                                                    GAG
TGT
    CCA GGC
                       CAG
                            GAT
TGT
    GAG AGC
              GGC TCC
                       TTC
                            ACC
                                 GCT
                                      TCA
                                          GAA
                                               AAC
                                                    CAC
CTC
    AGA
         CAC
              TGC CTC
                       AGC
                            TGC
                                 TCC
                                     AAA
                                          TGC
                                               CGA AAG
         GGT
              CAG GTG
                            ATC
                                 TCT
                                     TCT
                                          TGC
                                               ACA
                                                    GTG
GAA
    ATG
                       GAG
    CGG
         GAC
              ACC
                   GTG
                       TGT
                            GGC
                                 TGC
                                     AGG
                                          AAG
                                              AAC
                                                    CAG
GAC
    CGG
              TAT
                   TGG
                                 AAC
                                      CTT
                                          TTC
                                               CAG
                                                    TGC
TAC
         CAT
                       AGT
                            GAA
TTC
    AAT
         TGC
              AGC CTC
                       TGC
                           CTC AAT GGG ACC
                                              GTG CAC
```

CTC	TCC	TGC	CAG	GAG	AAA	CAG	AAC	ACC	GTG	TGC	ACC
TGC	CAT	GCA	GGT	TTC	TTT	CTA	AGA	GAA	AAC	GAG	TGT
GTC	TCC	TGT	AGT	AAC	TGT	AAG	AAA	AGC	CTG	GAG	TGC
ACG	AAG	TTG	TGC	CTA	CCC	CAG	ATT	GAG	AAT	GTT	AAG
GGC	ACT	GAG	GAC	TCA	GGC	ACC	ACA				

, or a C- and/or N- terminally shortened sequence thereof; and

I) DNA comprising the sequence:

CTG CCA GAC CTG CTG ATG GGC CTC TCC ACC GTG CCT GTG **GGA** ATA TAC CCC CTG TTG GTG CTC CTG **GAG** CTG CTA GGG GAC GTC CCT CAC TCA GGG GTT ATT **GGA** CTG TGT CCC CAA **GGA** AAA GTG AAG **AGA** GAT AGT AGG GAG TAT TCG ATT TGC TGT ACC CCT CAA AAT AAT ATC CAC AAT GAC TGT GGA. ACC TAC TTG TAC AAG TGC CAC AAA **GAC** TGC AGG GAG TGT CCG GGG CAG GAT **ACG** CCA GGC **AGC** GGC TCC TTC ACC GCT **TCA GAA** AAC CAC CTC GAG TCC AAA TGC CGA AAG GAA CTC AGC TGC AGA CAC TGC ACA GTG GAC CAG GTG GAG **ATC** TCT TCT TGC ATG GGT AGG AAG AAC CAG TAC **CGG** GAC ACC GTG TGT **GGC** TGC TGC TTC CAT TAT TGG AGT GAA AAC CTT TTC CAG **CGG** CTC TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC AAT ACC TGC AAACAG AAC ACC GTG TGC TCC TGC CAG GAG CTA AGA GAA AAC GAG TGT GTC **GCA** GGT TTC TTTCAT CTG TGC TCC TGT AGT AAC TGT AAG AAAAGC GAG ACG CAG ATT **GAG** AAT GTT AAG GGC TTG TGC CTA. CCC AAG TCA GGC **ACC ACA** GTG CTG TTG CCC CTG ACT GAG **GAC** CTT TTA TCC CTC CTC ATT TTC TTTGGT CTT TGC GTC CGG TTA CGC TAC CAA TGG AAG TTC ATT GGT ATG TAT TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG **ACA** GGA AAA GAG GGG GAG CTT GAA ACT ACT ACT CCT GAA AAG CCC CTG GCC CCA AAC CCA **AGC** TTC AGT CCC ACT TTC AGT CCC GTG GGC TTC ACC CCC ACC CTG **GGC** CCA TTC ACC TCC **AGC** TCC ACC TAT ACC CCC AGT TCC ACC GCG GCT CCC CGC AGA CCC GGT GAC TGT CCC AAC TTT GCT CCC CCC TAT CAG GGG GAC ATC GAG GTG **GCA** CCA CTT **GCG ACA** GCC CTC GCC TCC GAC CCC ATC CCC AAC GCC CAC AAG CCA CTT AAG TGG GAG GAC **AGC** CCC CAG CCC **GCG ACG** CTG TAC CAG AGC CTAGAC ACT GAT GAC CCG TTG CGC TGG AAG GCC GTG GTG GAG AAC GTG CCC GAG GAA TTC GTG CGG CGC CTA GGG CTG **AGC GAC** CAC ATC GAT CGG CTG GAG CTG CAG AAC GGG CGC TGC CTG ATG CTG GCG ACC TGG AGG CGC **GAG GCG** CAA TAC **AGC** CGG CGC ACG CCG CGG CGC GAG GCC ACG CTG GAG CTG

CTG GGA CGC GTG CTC CGC GAC ATG GAC CTG CTG GGC TGC CTG GAG GAC ATC GAG GAG GCG CTT TGC GGC CCC GCC GCC CCC AGT CTT CTC AGA

, or a C- and/or N- terminally shortened sequence thereof;

- J) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one conservative amino acid substitution;
- K) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a glycosylation site;
- L) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a proteolytic cleavage site; and
- M) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a cysteine residue.
- 82. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell which and has the ability to bind to TNF, characterized in that the polypeptide is encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 69 under conditions of moderate stringency.
- 83. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of:
 - A) a polypeptide comprising the amino acid sequence:

 R^2 his asp gly lys ile pro gln asn ser val gln tyr cys pro his ile thr lys cys lys gly thr tyr leu asn ser cys cys thr cys gly asp asp arg tyr asn asp cys pro gly pro gln his leu glu glu phe thr ala ser glu asn cys ser gly ser his cys leu ser ser lys cys arg lys glu met gly arg cys thr val ile thr val asp gln val glu ser ser cys asp arg his ser glu gln tyr trp gly cys arg lys asn tyr arg cys leu gln phe asn CVS ser leu cys leu asn gly asn phe cys val cys gln thr thr val his leu ser gln glu lys asn cys val his phe ieu glu asn glu cys thr cys ala gly phe arg glu thr lys leu ser cys ser asn cys lys lys ser leu cys ile leu gln glu asn cys pro

, or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

B) a polypeptide comprising the amino acid sequence:

R ² asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gin	glü	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser
gly	thr	thr											

, or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

- C) a polypeptide comprising the amino acid sequence of A or B with at least one conservative amino acid substitution;
- D) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a glycosylation site;
- E) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a proteolytic cleavage site; and
- F) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a cysteine residue.
- 84. (Amended) A polypeptide according to claim 83, wherein R² is a polypeptide comprising an amino acid sequence which can be cleaved *in vivo*.

85. (Amended) A polypeptide according to claim 84, wherein R² is a polypeptide comprising the amino acid sequence:

leu val pro leu leu leu pro met gly leu ser thr val asp gly val ile leu leu ile pro ser leu leu glu val gly tyr gly;

or a C- and/or N- terminally shortened sequence thereof.

- 95. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, characterized in that the polypeptide is encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 83 under conditions of moderate stringency.
- 96. (Amended) A polypeptide according to claim 83, wherein said polypeptide is selected from the group consisting of:
 - A) a polypeptide comprising the amino acid sequence:

```
val
                                   gln
                                                 lys
                                                        tyr
                                                               ile
                                                                      his
                                                                             pro
                                                                                    gln
                                                                                           asn
asp
       ser
                     cys
                            pro
                                          gly
                                                        his
                                                                                    tyr
                                                                                           leu
asn
       ser
              ile
                     cys
                            cys
                                   thr
                                          lys
                                                 cys
                                                               lys
                                                                      gly
                                                                             thr
                                   gly
                                                 gly
                                                        gln
                                                               asp
                                                                      thr
                                                                             asp
                                                                                    cys
                                                                                           arg
tyr
       asn
              asp
                     cys
                            pro
                                          pro
glu
                                                 thr
                                                        ala
                                                                      glu
                                                                             asn
                                                                                    his
                                                                                           leu
       cys
              glu
                     ser
                            gly
                                   ser
                                          phe
                                                               ser
                                                                      lys
                                                                             glu
                                                                                    met
                                                                                           gly
arg
       his
              cys
                     leu
                            ser
                                   cys
                                          ser
                                                 ĺys
                                                        cys
                                                               arg
                                                                                    thr
                                                                                           val
                     ile
                                                 thr
                                                        val
gln
       val
              glu
                            ser
                                   ser
                                          cys
                                                               asp
                                                                      arg
                                                                             asp
                            lys
                                          gln
                                                               his
                                                                      tyr
                                                                             trp
                                                                                    ser
                                                                                           glu
       gly
              cys
                     arg
                                   asn
                                                 tyr
                                                        arg
cys
asn
       leu
              phe
                     gln
                            cys
                                   phe
                                          asn
                                                 cys
                                                        ser
                                                               leu
                                                                      cys
                                                                             leu
                                                                                    asn
                                                                                           gly
                                                                             thr
                                                                                    val
                                                                                           cys
       val
              his
                     leu
                                                 glu
                                                        lys
                                                               gln
                                                                      asn
thr
                            ser
                                   cys
                                          gln
                                                               glu
                                                                                           val
thr
       cys
              his
                     ala
                            gly
                                   phe
                                          phe
                                                 leu
                                                        arg
                                                                      asn
                                                                             glu
                                                                                    cys
                                                                                           leu
                                                               glu
                                                                             thr
                                                                                    lys
ser
       cys
              ser
                     asn
                            cys
                                   lys
                                          lys
                                                 ser
                                                        leu
                                                                      cys
       leu
                     gln
                            ile
                                   glu
                                          asn
cys
              pro
```

, or a C- and/or N- terminally shortened sequence thereof;

B) a polypeptide comprising the amino acid sequence:

val his leu ser leu val pro gly asp arg glu lys arg asp ile gln gly lys tyr ile his pro gln asn asn ser cys pro his gly thr leu asp cys cys thr lys cys lys tyr tyr asn

gly gln thr cys arg glu cys glu cys pro gly pro asp asp phe thr ala ser glu asn his leu arg his cys ser gly ser ser lys glu met gly gln val glu leu ser cys lys cys arg thr val gly cys ile thr val arg asp cys ser ser cys asp gln his trp ser glu asn leu phe arg lys asn tyr arg tyr val his thr gln cys phe asn cys ser leu cys leu asn gly val cys thr cys his leu gln glu lys gln asn thr ser cys glu glu cys val ser cys ser ala phe phe leu arg asn gly glu thr lys leu cys leu pro asn cys lys lys ser leu cys gln ile glu asn

, or a C- and/or N- terminally shortened sequence thereof;

C) a polypeptide comprising the amino acid sequence:

acn	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asp	301		-	•	_		•	-				_	
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn-	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser
gly	thr	thr											

, or a C- and/or N- terminally shortened sequence thereof; and

D) a polypeptide comprising the amino acid sequence:

leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser	val
cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser	ile
cys	cys	thr	lys	cys	ḥis	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys	glu
ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys
leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val	glu
ile	ser	ser	cys	ţhr	val	asp	arg	asp	thr	val	cys	gly	cys
arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe
gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his
ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu	pro
gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr	thr

, or a C- and/or N- terminally shortened sequence thereof;

- E) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one conservative amino acid substitution;
- F) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a glycosylation site;
- G) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a proteolytic cleavage site; and
- H) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a cysteine residue.
- 97. (Amended) A polypeptide according to claim 96, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxylterminus, or at both the amino-terminus and at the carboxyl-terminus.
- 98. (Amended) A polypeptide according to claim 97, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxylterminus.
- 99. (Amended) A polypeptide according to claim 97, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
- 100. (Amended) A polypeptide according to claim 99, wherein said polypeptide includes a methionine at the amino-terminus.
- 101. (Amended) A polypeptide according to claim 97, wherein said polypeptide includes at least one additional amino acid at the carboxyl terminus.

- 102. (Amended) A polypeptide according to claim 96, wherein said polypeptide is not associated with human urinary proteins.
- 103. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of:
 - A) a polypeptide comprising the amino acid sequence:

```
ile
                                                                            his
                                                                                          gln
met
       asp
              ser
                     val
                            cys
                                   pro
                                         gln
                                                 gly
                                                       lys
                                                              tyr
                                                                                   pro
                                         thr
                                                              his
                                                                     lys
                                                                             gly
                                                                                    thr
                                                                                          tyr
                     ile
                            cys
                                   cys
                                                 lys
                                                       cys
       asn
              ser
asn
                                         gly
                                                pro
                                                       gly
                                                               gln
                                                                     asp
                                                                            thr
                                                                                    asp
                                                                                          cys
leu
                     asp
                            cys
                                   pro
       tyr
              asn
                                                                                          his
                                                              ala
                                                                             glu
                                                                                    asn
       glu
              cys
                     glu
                            ser
                                   gly
                                          ser
                                                 phe
                                                       thr
                                                                     ser
arg
leu
              his
                            leu
                                   ser
                                          cys
                                                 ser
                                                       lys
                                                              cys
                                                                     arg
                                                                             lys
                                                                                    glu
                                                                                          met
       arg
                     cys
                            ile
                                                       thr
                                                               val
                                                                                    asp
                                                                                          thr
       gln
              val
                     glu
                                   ser
                                          ser
                                                 cys
                                                                     asp
                                                                             arg
gly
                                                                     his
                                                                                          ser
val
       cys
              gly
                     cys
                            arg
                                   lys
                                          asn
                                                 gln
                                                       tyr
                                                               arg
                                                                             tyr
                                                                                    trp
                                                                                    leu
                                                                                          asn
                     phe
                            gln
                                          phe
                                                 asn
                                                       cys
                                                               ser
                                                                     leu
                                                                             cys
glu
       asn
              leu
                                   cys
                     his
                            leu
                                                 gln
                                                       glu
                                                              lys
                                                                     gln
                                                                             asn
                                                                                    thr
                                                                                          val
gly
       thr
              val
                                   ser
                                          cys
                                                 phe
                                                                                          cys
cys
       thr
              cys
                     his
                            ala
                                   gly
                                         phe
                                                       leu
                                                               arg
                                                                     glu
                                                                             asn
                                                                                    glu
val
                            asn
                                   cys
                                          lys
                                                 lys
                                                       ser
                                                               leu
                                                                     glu
                                                                             cys
                                                                                    thr
                                                                                          lys
       ser
              cys
                     ser
                                   ile
                                          glu
leu
              leu
                            gln
                                                 asn,
       cys
                     pro
```

or a C- and/or N- terminally shortened sequence thereof;

B) a polypeptide comprising the amino acid sequence:

```
met
       leu
              val
                            his
                                   leu
                                          gly
                                                               glu
                                                                      lys
                     pro
                                                 asp
                                                        arg
                                                                             arg
                                                                                    asp
                                                                                           ser
                                                        his
val .
       cys
              pro
                     gln
                            gly
                                   lys
                                          tyr
                                                 ile
                                                               pro
                                                                      gln
                                                                             asn
                                                                                    asn
                                                                                           ser
ile
                     thr
                                          his
                                                 lys
                                                        gly
                                                               thr
                                                                      tyr
                                                                             leu
                                                                                           asn
       cys
              cys
                            lys
                                   cys
                                                                                    tyr
                                   gly
                                          gln
                                                 asp
                                                        thr
                                                               asp
                                                                      cys
                                                                             arg
                                                                                    glu
                                                                                           cys
asp
       cys
              pro
                     gly
                            pro
                                          ala
                                                        glu
                                                                      his
                                                                             leu
                                                                                           his
glu
       ser
              gly
                     ser
                            phe
                                   thr
                                                 ser
                                                               asn
                                                                                    arg
       leu
                            ser
                                   lys
                                          cys
                                                        lys
                                                               glu
                                                                      met
                                                                             gly
                                                                                    gln
                                                                                           val
cys
              ser
                     cys
                                                 arg
                                   thr
                                          val
                                                                      thr
                                                                             val
                                                                                           gly
glu
       ile
              ser
                     ser
                            cys
                                                 asp
                                                        arg
                                                               asp
                                                                                    cys
                                                 his
                                                                                           leu
cys
       arg
              lys
                     asn
                            gln
                                   tyr
                                          arg
                                                        tyr
                                                               trp
                                                                      ser
                                                                             glu
                                                                                    asn
                                          ser
                                                 leu
                                                               leu
                                                                             gly
                                                                                    thr
                                                                                           val
phe
       gln
              cys
                     phe
                            asn
                                   cys
                                                        cys
                                                                      asn
his
       leu
              ser
                     cys
                            gln
                                   glu
                                          lys
                                                 gln
                                                        asn
                                                               thr
                                                                      val
                                                                             cys
                                                                                    thr
                                                                                           cys
                                                                                           cys
his
       ala
                     phe
                            phe
                                   leu
                                                 glu
                                                        asn
                                                               glu
                                                                      cys
                                                                             val
                                                                                    ser
              gly
                                          arg
                                                                                           leu
                                                               thr
                                                                             leu
ser
       asn
              cys
                     lys
                            lys
                                   ser
                                          leu
                                                 glu
                                                        cys
                                                                      lys
                                                                                    cys
pro
       gln
              ile
                     glu
                            asn
```

, or a C- and/or N- terminally shortened sequence thereof;

C) a polypeptide comprising the amino acid sequence:

ile his val cys pro gln gly lys tyr pro gln met asp ser ile thr lys gly thr asn asn cys lys cys his tyr ser cys thr leu asp cys pro gly pro gly gln asp asp cys tyr asn phe glu his glu thr ala ser asn arg glu cys ser gly ser leu his leu ser cys ser lys cys arg lys glu met arg cys gln val glu ile ser ser cys thr val asp arg asp thr gly gln his tyr ser val gly lys asn tyr trp cys cys arg arg gln phe asn leu leu asn glu asn leu phe cys cys ser cys thr gly thr val his leu ser cys gin glu lys gln asn val his ala gly phe phe leu glu asn glu cys cys thr cys arg glu thr lys val cys ser asn cys lys lys ser leu cys ser leu cys leu gin ile glu asn val lys gly thr glu asp pro thr ser gly thr

, or a C- and/or N- terminally shortened sequence thereof;

D) a polypeptide comprising the amino acid sequence:

his glu met leu val pro leu gly asp arg lys arg asp ser val lys ile his ser cys pro gln gly tyr pro gln asn asn ile cys thr lys cys his lys gly thr tyr leu tyr asn cys gly thr glu asp cys pro gly pro gln asp asp cys arg cys his glu thr ala glu his leu ser gly ser phe ser asn arg leu lys cys lys glu met gly gln val cys ser cys ser arg thr thr val gly glu ile ser ser cys val asp arg asp cys his glu leu CYS lys asn gln tyr arg tyr trp ser asn arg val phe gln phe asn cys ser leu cys leu asn gly thr cys his leu glu gln asn val thr cys ser cys gln lys thr cys his ala phe phe leu glu asn glu cys val ser cys gly arg ser asn cys lys lys ser leu glu cys thr lys leu cys leu gln ile glu gly thr pro glu asn val lys gly thr asp ser thr

, or a C- and/or N- terminally shortened sequence thereof;

E) a polypeptide comprising the amino acid sequence:

thr val val met gly leu asp leu leu leu pro leu ser pro leu val ile ile leu leu glu leu gly tyr pro ser gly val his leu glu lys ser gly leu val pro gly asp arg arg asp val gly tyr ile his gln asn asn ser cys pro gln lys pro his gly thr ile cys cys thr lys cys lys tyr leu tyr asn thr glu cys gly gln cys arg asp cys pro gly pro asp asp ala glu his leu his glu ser gly ser phe thr ser asn arg cys leu lys cys arg lys glu met gly gln val ser cys ser ile thr glu cys val asp arg asp thr val cys gly ser ser

lys gln his ser glu asn leu cys arg asn tyr arg tyr trp phe gln phe asn ser leu cys leu gly thr val cys cys asn thr his leu ser cys gln glu lys gln asn thr val cys cys glu his ala glu val ser cys gly phe phe leu arg asn cys glu leu leu lys iys ser leu cys thr lys cys ser asn cys gln ile glu asn pro

, or a C- and/or N- terminally shortened sequence thereof;

F) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	vai	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	g!y	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr													

, or a C- and/or N- terminally shortened sequence thereof;

G) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro .	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
1eu	CVS	leu	nro	øln	ile	ølu	asn						

, or a C- and/or N- terminally shortened sequence thereof;

H) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
leu	cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp
ser	gly	thr	thr										

, or a C- and/or N- terminally shortened sequence thereof;

I) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	1.ys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr	val	leu	leu	pro	leu	val	ile	phe	phe	gly	leu	cys	leu
leu	ser	leu	leu	phe	ile	gly	leu	met	tyr	arg	tyr	gln	arg
trp	lys	ser	lys	leu	tyr	ser	ile	val	cys	gly	lys	ser	thr
pro	glu	lys	glu	gly	glu	leu	glu	gly	thr	thr	thr	lys	pro
leu	ala	pro	asn	pro	ser	phe	ser	pro	thr	pro	gly	phe	thr
pro	thr	leu	gly	phe	ser	pro	val	pro	ser	ser	thr	phe	thr

phe thr tyr thr gly pro asn ala ser ser ser pro asp cys ala glu val ala tyr gln gly asp ala pro arg arg pro pro ile leu ala thr ala leu ala pro ile pro asn pro ser asp pro leu gln lys trp glu asp ser ala his lys pro gln ser val leu thr ala thr leu tyr ala val glu asp asp asp pro val leu asn val pro pro leu arg trp lys glu phe arg arg ile leu gln gly leu ser asp his glu asp arg leu glu asn ala met leu ala thr gly arg cys leu arg glu gln tyr ser thr glu ala thr leu glu leu trp arg arg pro arg arg arg leu leu gly arg val leu arg asp met asp leu leu gly cys ala glu ile glu ala leu gly ala leu pro asp glu cys pro leu pro ala pro ser leu arg

, or a C- and/or N- terminally shortened sequence thereof;

- J) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one conservative amino acid substitution;
- K) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a glycosylation site;
- L) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a proteolytic cleavage site; and
- M) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a cysteine residue.
- 104. (Amended) A polypeptide according to claim 103, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.
- 105. (Amended) A polypeptide according to claim 104, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
- 107. A polypeptide according to claim 103, wherein said polypeptide is chemically derivatized.

- 108. A polypeptide having the ability to bind to TNF comprising an amino acid sequence as set forth in one of claims 69, 78, 80, 83, 96 and 103 with at least one intrasequence conservative amino acid substitution.
- 109. (Amended) A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.
- 110. (Amended) A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.
- 111. (Amended) A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
- 112. (Amended) A polypeptide according to claim 111, wherein said polypeptide includes a methionine at the amino-terminus.
- 113. (Amended) A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
- 114. (Amended) A polypeptide according to claim 108, wherein said polypeptide includes a methionine at the amino-terminus and said amino acid substitution is at a glycosylation site.
- 115. (Amended) A polypeptide according to claim 108, wherein said amino acid substitution is at a glycosylation site.



ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER:

ATTN 1	: NEW RULES CASES: F Wrapped Nucleics	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line.
,		This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped " down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
3 👤	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces. All text must be visible on page.
4	Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.
7	Wrong Designation	Sequence(s) contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)
8	Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000
0	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
1	Use of <213>Organism (NEW RULES)	Sequence(s) are missing this mandatory field or its response.
2	Use of <220>Feature (NEW RULES)	Sequence(s) are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Sequence Rules)
3	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.